AUTODOC CLUB

How to change rear strut mount on **BMW 1 Hatchback (E87)** – replacement guide

SIMILAR VIDEO TUTORIAL



This video shows the replacement procedure of a similar car part on another vehicle

Important!

This replacement procedure can be used for:
BMW 1 Hatchback (E87) 116i 1.6, BMW 1 Hatchback (E87) 116i 2.0, BMW 1 Hatchback (E87) 118i 2.0, BMW 1 Hatchback (E87) 120i 2.0, BMW 1 Hatchback (E87) 130i 3.0, BMW 1 Hatchback (E87) 116d 2.0, BMW 1 Hatchback (E87) 118d 2.0, BMW 1 Hatchback (E87) 120d 2.0, BMW 1 Hatchback (E87) 123d 2.0

The steps may slightly vary depending on the car design.

This tutorial was created based on the replacement procedure for a similar car part on: BMW 1 Coupe (E82) 125i 3.0

REPLACEMENT: STRUT MOUNT – BMW 1 HATCHBACK (E87). LIST OF THE TOOLS YOU'LL NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Drive socket # 14
- Drive socket # 16
- Torx bit T40
- Wheel impact socket #17
- Ratchet wrench
- Torque wrench
- Shock absorber socket #DD6
- Phillips screwdriver
- Clip removal tool
- Hydraulic transmission jack
- Wheel chock

Buy tools

Replacement: strut mount – BMW 1 Hatchback (E87). AUTODOC experts recommend:

- The replacement procedure is identical for the mounts of the right and left shock absorbers of the rear suspension.
- Both mounts of the rear shock struts should be replaced simultaneously.
- Be sure to replace all self-locking nuts and bolts during installation.
- All work should be done with the engine stopped.

REPLACEMENT: STRUT MOUNT – BMW 1 HATCHBACK (E87). USE THE FOLLOWING PROCEDURE:

1 Open the boot lid.

2 Fold down the backrests of the rear seats.

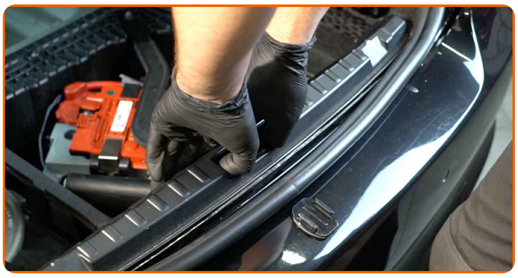
3 Raise the lower lining of the boot.



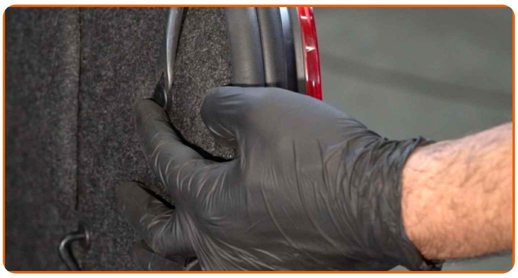
4 Unscrew the fastener of the central protective plastic panel. Use a Phillips screwdriver. Use a clip removal tool. Use Torx T40. Use a ratchet wrench.



5 Remove the central protective plastic panel.



6 Unscrew the fastener of the boot side lining. Use a clip removal tool. Use Torx T40. Use a ratchet wrench.



7 Detach the boot side lining.



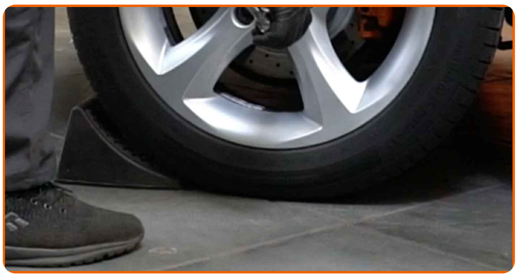
8 Remove the mount cap from the shock absorber upper fastener.



9 Loosen the upper fastener of the shock absorber. Use a shock absorber socket DDN№6. Use a drive socket #16. Use a ratchet wrench.



10 Secure the wheels with chocks.



11 Loosen the wheel mounting bolts. Use wheel impact socket #17.



12 Raise the rear of the car and secure on supports.

13 Unscrew the wheel bolts.



Replacement: strut mount – BMW 1 Hatchback (E87). Tip:

- To avoid injury, hold up the wheel when unscrewing the bolts.

14 Remove the wheel.



15 Clean the shock absorber fasteners. Use a wire brush. Use WD-40 spray.



16 Unscrew the lower fastener of the shock absorber. Use a drive socket #14. Use a ratchet wrench.



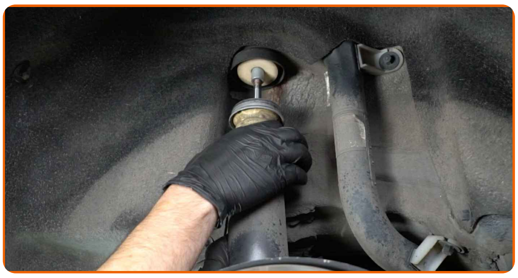
17 Unscrew the upper fastener of the shock absorber.



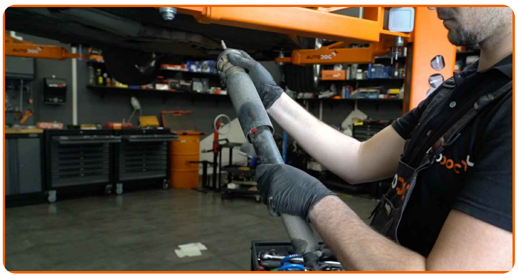
AUTODOC recommends:

- Important! Hold the shock absorber while unscrewing the fastening bolts. BMW 1 Hatchback (E87)

18 Remove the shock absorber.



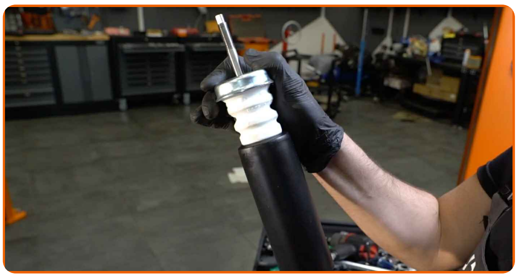
19 Remove the shock absorber mount, boot and bump stop.



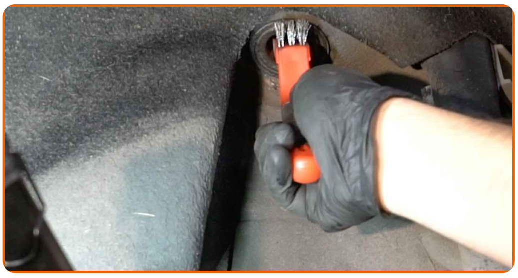
Replacement: strut mount – BMW 1 Hatchback (E87). AUTODOC experts recommend:

- Examine the shock absorber dust cap and the bump stop. Replace them if necessary.

20 Install the new mount, boot, and bump stop on the shock absorber.



21 Clean the shock absorber mounting seats. Use a wire brush. Use WD-40 spray.



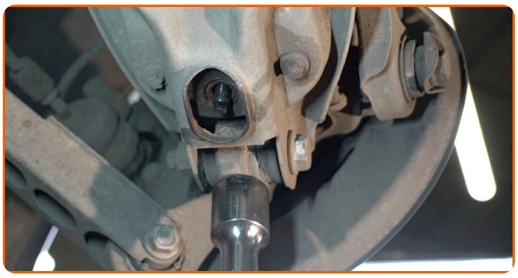
22 Place the shock absorber in the wheel arch and secure it.



AUTODOC recommends:

- BMW 1 Hatchback (E87) – To avoid injury, hold the shock absorber while screwing in the fastening bolts.

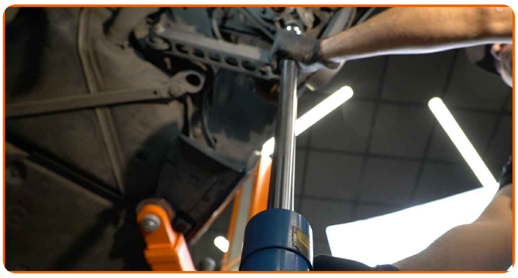
23 Support the stub axle. Use a hydraulic transmission jack.



24 Screw in the lower fastener of the shock absorber. Use a drive socket #14. Use a ratchet wrench.



25 Remove the support from under the stub axle.



AUTODOC recommends:

- Replacement: strut mount – BMW 1 Hatchback (E87). Lower the transmission jack smoothly, without jerks, to avoid damaging components and mechanisms.

26 Tighten the top shock absorber fastening. Use a shock absorber socket DDN№6. Use a drive socket #16. Use a torque wrench. Tighten it to 27 Nm torque.



27 Treat the shock absorber fasteners. Use copper grease.



28 Install the mount cap on the shock absorber upper fastener.



29 Tighten the lower fastener of the shock absorber. Use a drive socket #14. Use a torque wrench. Tighten it to 60 Nm torque.



30 Treat the shock absorber fasteners. Treat all joints of the arm. Use copper grease.

31 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



32 Clean the brake disk surface. Use a brake cleaner.



Replacement: strut mount – BMW 1 Hatchback (E87). Tip from AUTODOC:

- After applying the spray, wait a few minutes.

33

Install the wheel.

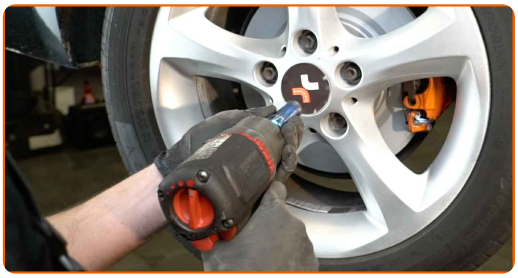


Replacement: strut mount – BMW 1 Hatchback (E87). Tip from AUTODOC experts:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

34

Screw in the wheel bolts. Use wheel impact socket #17.



35

Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 120 Nm torque.



36 Remove the jacks and chocks.



37 Attach the side lining of the boot.



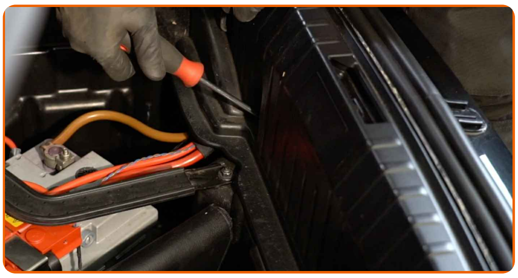
38 Screw in the fastener of the boot side lining. Use Torx T40. Use a ratchet wrench.



39 Install the central protective plastic panel.



40 Screw in the fastener of the central protective plastic panel. Use a Phillips screwdriver. Use Torx T40. Use a ratchet wrench.



41 Put down the lower lining of the boot.



42 Return the seat to its original position.

43 Close the lid of the luggage compartment.

WELL DONE!

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